

Laboratory: Deformation Processing 2000-2004

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| 著者 | Institute for Materials Research, Tohoku University |
| journal or publication title | List of Publications 2000-2004 |
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Hosoda, H; Miyazaki, S; Hanada, S

Potential of IrAl base alloys as ultrahigh-temperature smart

Intermetallics 8 (2000) 1081 – 1090

00-IMR0492

Takasugi, T; Hanada, S

The effect of Nb addition on environmental embrittlement of a Ni-3(Si,Ti)

Intermetallics 8 (2000) 47 – 52

00-IMR0491

Kim, WY; Hanada, S

Tensile elongation of off-stoichiometric Fe₃Si single crystals at high

J. Alloy. Compd. 299 (2000) 208 – 212

00-IMR0493

Kim, HS; Kum, D; Hanada, S

Structural evolution during mechanical alloying and annealing of a Nb-25at%Al

J. Mater. Sci. 35 (2000) 235 – 239

00-IMR0499

Nomura, N; Yoshimi, K; Konno, T; Hanada, S

Fracture toughness improvement of TiC by Nb and Mo

J. Mater. Sci. Lett. 19 (2000) 1879 – 1881

00-IMR0195

Sha, JB; Hirai, H; Tabaru, T; Kitahara, A; Ueno, H; Hanada, S

Effect of W addition on compressive strength of Nb-10Mo-10Ti-18Si-Base in-situ

Mater. Trans. JIM 41 (2000) 1125 – 1128

00-IMR0480

Suzuki, T; Nomura, N; Yoshimi, K; Hanada, S

Microstructure and creep of Mo-ZrC in-situ

Mater. Trans. JIM 41 (2000) 1164 – 1167

00-IMR0217

Ma, CL; Tan, Y; Tanaka, H; Kasama, A; Tanaka, R; Miura, S; Mishima, Y; Hanada, S

Phase equilibria in Nb-Mo-rich zone of the Nb-Si-Mo ternary

Mater. Trans. JIM 41 (2000) 1329 – 1336

00-IMR0503

Nomura, N; Yoshimi, K; Hanada, S

Mechanical properties of Mo-Nb-TiC in-situ composites synthesized by

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00-IMR0220

Tan, Y; Ma, CL; Tanaka, H; Kasama, A; Tanaka, R; Mishima, Y; Hanada, S

Influence of boron addition on high temperature mechanical properties of Nb₃Ir intermetallic

Mater. Trans. JIM 41 (2000) 1605 – 1611

00-IMR0504

Mizuhara, Y; Masahashi, N

Diffusion bonding enhanced by phase transformation in micro-duplex titanium

Mater. Trans. JIM 41 (2000) 429 – 436

00-IMR0500

Ma, CL; Kasama, A; Tanaka, H; Tan, Y; Tanaka, R; Mashima, Y; Hanada, S

Microstructures and mechanical properties of Nb/Nb-silicide in-situ composites synthesized by reactive hot pressing of ball milled powders

Mater. Trans. JIM 41 (2000) 444 – 451

00-IMR0501

Ma, CL; Kasama, A; Tan, Y; Tanaka, H; Tanaka, R; Mishima, Y; Hanada, S

Synthesis of Nb/Nb₅Si₃ in-situ composites by mechanical milling and reactive spark plasma

Mater. Trans. JIM 41 (2000) 719 – 726

00-IMR0502

Masahashi, N; Hanada, S

Grain boundary character distribution of ductile L1(2)-type Ni₃Al intermetallic

Z. Metallk. 91 (2000) 516 – 522

00-IMR0505

Semboshi, S; Masahashi, N; Hanada, S

Degradation of hydrogen absorbing capacity in cyclically hydrogenated TiMn2

Acta Mater. 49 (2001) 927 – 935

01-IMR0577

Hanada, S; Harada, M; Sakisaka, S; Koga, H; Kawaguchi, T; Taniguchi, E; Baba, S; Shishido, S; Kumashiro, R; Ueno, T; Ueno, Y; Ishii, M

TNF- α and IFN- γ affect on barrier function of tight junction in immortalized mouse cholangiocytes.

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01-IMR0578

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Microstructure and room temperature deformation of Nb-ss/Nb5Si3 in situ composites alloyed with Mo

Intermetallics 9 (2001) 521 – 527

01-IMR0579

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Microstructure and room temperature fracture toughness of Nb-ss/Nb5Si3 in situ composites

Intermetallics 9 (2001) 827 – 834

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Microstructure and oxidation behavior of low pressure plasma sprayed iron aluminides

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Mater. Trans. 42 (2001) 1028 – 1034

01-IMR0583

Miura, E; Yoshimi, K; Hanada, S

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Lu, XY; Nagata, A; Kamio, D; Sugawara, K; Kamada, S; Watanabe, K; Hanada, S

Effect of MgO content on the formation and superconducting properties of (Bi,Pb)-2223 phase in the partial-melting and sintering process

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Oxygen-molybdenum interaction with dislocations in Nb-Mo single crystals at elevated
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Yoshimi, K; Nakatani, S; Suda, T; Hanada, S; Habazaki, H

Oxidation behavior of Mo₅SiB₂-based alloy at elevated
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02-IMR0605

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Microstructure and high temperature strength at 1773 K of Nb-ss/Nb₅Si₃ composites alloyed with molybdenum
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02-IMR0606

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02-IMR0607

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Flow behavior and microstructures of large-grained Fe₃Si during high temperature
J. Alloy. Compd. 347 (2002) 219 – 227

02-IMR0608

Kim, WY; Tanaka, H; Hanada, S

High temperature strength at 1773 K and room temperature fracture toughness of Nb-ss/Nb₅Si₃ in situ composites alloyed with Mo
J. Mater. Sci. 37 (2002) 2885 – 2891

02-IMR0610

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Mater. Sci. Eng. A-Struct. Mater. 329 (2002) 228 – 234
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02-IMR0193

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Mater. Trans. 43 (2002) 1415 – 1418

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Mater. Trans. 43 (2002) 2897 – 2902

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Effect of heat treatment and sn content on superelasticity in biocompatible TiNbSn

Mater. Trans. 43 (2002) 2978 – 2983

02-IMR0615

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Effect of Cr addition on microstructure and mechanical properties inn Nb-Si-Mo base multiphase alloys

Mater. Trans. 43 (2002) 3254 – 3261

02-IMR0616

Oh, IH; Nomura, N; Hanada, S

Microstructures and mechanical properties of porous titanium compacts prepared by powder

Mater. Trans. 43 (2002) 443 – 446

02-IMR0611

Ma, CL; Tan, Y; Kasama, A; Hanada, S

Phase equilibria in Nb-W-rich zone of the Nb-W-Si ternary

Mater. Trans. 43 (2002) 688 – 693

02-IMR0612

Semboshi, S; Masahashi, N; Hanada, S

Macro- and microstructural changes in hydrogenated TiMn2 and

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02-IMR0617

Nomura, N; Suzuki, T; Nakatani, S; Yoshimi, K; Hanada, S

Joining of oxidation-resistant Mo-Si-B multiphase alloy to heat-resistant Mo-ZrC in-situ

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03-IMR0231

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Determination of density and vacancy concentration in rapidly solidified FeAl

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03-IMR0232

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03-IMR0517

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03-IMR0233

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Thermal expansion, strength and oxidation resistance of Mo/Mo₅SiB₂ in-situ composites at elevated temperatures

Intermetallics 11 (2003) 787 – 794

03-IMR0234

Mizuhara, Y; Hashimoto, K; Masahashi, N

Microstructure and phase stability of TiAl-W ternary

Intermetallics 11 (2003) 807 – 816

03-IMR0547

Semboshi, S; Masahashi, N; Hanada, S

Effect of composition on hydrogen absorbing properties in binary TiMn₂ based

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03-IMR0548

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Hydrogenation-induced fragmentation in Ta-Ni

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03-IMR0549

Tan, Y; Ma, CL; Kasama, A; Tanaka, R; Mishima, Y; Hanada, S; Yang, JM

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Mater. Sci. Eng. A-Struct. Mater. 341 (2003) 282 – 288
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03-IMR0551

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XPS study of corrosion behavior of Ti-18Nb-4Sn shape memory alloy in a 0.05 mass % HCl

Mater. Trans. 44 (2003) 1405 – 1411

03-IMR0554

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Microstructure and high-temperature strength of directionally solidified Al₂O₃/YAG eutectic composite

Mater. Trans. 44 (2003) 1690 – 1693

03-IMR0555

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03-IMR0553

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Mechanical properties of As-cast and directionally solidified Nb-MoW-Ti-Si in-situ composites at high temperatures

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Internal-friction study of the interstitial-substitutional effect on the deformation behaviour of Nb-O, Nb-Ta-O and Nb-Mo-O single crystals

Philos. Mag. 83 (2003) 2343 – 2357

03-IMR0237

Lu, XY; Nagata, A; Watanabe, K; Nojima, T; Sugawara, K; Hanada, S; Kamada, S

Formation and texture of Bi-2223 phase during sintering in high magnetic

Physica C-Superconductivity and Its Application 392 (2003) 453 – 457

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Scr. Mater. 48 (2003) 1439 – 1444

03-IMR0523

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Mechanical properties of porous titanium compacts prepared by powder

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03-IMR0559

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04-IMR0543

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Effect of structural changes on degradation of hydrogen absorbing capacity in cyclically hydrogenated TiMn2 based alloys
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Microstructure and properties of iron aluminum alloy/CrMo steel composite prepared by clad
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04-IMR0549

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Prop. Microstruct. Process.

04-IMR0550

Murayama, Y; Hanada, S; Lee, JH; Yoshikawa, A; Fukuda, T

Texture control and high-temperature strength of directionally solidified Al₂O₃/YAG/ZrO₂ eutectic composite rods

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04-IMR0502

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Mater. Trans. 45 (2004) 2776 – 2779

04-IMR0552

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04-IMR0500

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Surface oxidation of Fe-48 mol % Al single crystal under a high

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04-IMR0170

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04-IMR0551

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Hydrogen pulverization of refractory metals, alloys and

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04-IMR0553

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Formation and texture of Bi-2223 phase during sintering in a temperature

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